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<input type="checkbox"/>	L25	L24 and L23 and L22	76421
<input type="checkbox"/>	L24	drug or (active agent) or bioactive or medicine or pharmaceutical	779735
<input type="checkbox"/>	L23	layer or bi-layer or multi-layer or bilayer or multilayer or (multi adj layer) or (bi adj layer)	3613679
<input type="checkbox"/>	L22	particle	1470127
<input type="checkbox"/>	L21	L9 adj L19	84
<input type="checkbox"/>	L20	L19 same L9	485
<input type="checkbox"/>	L19	disintegrat\$3	114179
<input type="checkbox"/>	L18	L17 and L13	8
<input type="checkbox"/>	L17	L16 and L11	16
<input type="checkbox"/>	L16	L15 and L10	20
<input type="checkbox"/>	L15	collagen or fibronectin or albumin or globulin or fibronogen or fibrin or thrombin or polysaccharide or guar gum or xanthan gum or caraggenan or alginate or pectin	281637

<input type="checkbox"/>	L14 L13 and L12	11
<input type="checkbox"/>	L13 polyethylene oxide or polyethylene glycol or polyethylene oxide-co-polypropylene oxide or PEO-PP0 or PEO-co-PPO	218285
<input type="checkbox"/>	L12 L11 and L10 methylcellulose or hydroxymethylcellulose or hydroxyethylcellulose or	27
<input type="checkbox"/>	L11 hydroxypropylcellulose or hydroxypropyl methylcellulose or carboxymethylcellulose	91663
<input type="checkbox"/>	L10 L9 and L8	36
<input type="checkbox"/>	L9 USP!	22313
<input type="checkbox"/>	L8 L7 or L6 748-\$ DID. OR US-6033685-\$ DID. OR US-6066337-\$ DID. OR US-6093420-\$ DID. OR US-6120803-\$ DID. OR US-6174497-\$ DID. OR US-6177104-\$ DID. OR US-6187337-\$ DID. OR US-6207197-\$ DID. OR US-6221395-\$ DID. OR US-6261601-\$ DID. OR US-6340475-\$ DID. OR US-6368628-\$ DID. OR US-6451808-\$ DID. OR US-6488962-\$ DID. US-3960150-\$ DID. OR US-4434153-\$ DID. OR US-4690824-\$ DID. OR US-4695467-\$ DID. OR US-4748023-\$ DID. OR US-4786503-\$ DID. OR US-4839177-\$ DID. OR US-4851232-\$ DID. OR US-4865849-\$ DID. OR US-5002772-\$ DID. OR US-5007790-\$ DID. OR US-5064656-\$ DID. OR US-5085865-\$ DID. OR US-5213808-\$ DID. OR US-5232704-\$ DID. OR US-5393765-\$ DID. OR US-5422123-\$ DID. OR US-5425950-\$ DID. OR US-5487901-\$ DID. OR US-5508040-\$ DID. OR US-5549913-\$ DID. OR US-5945125-\$ DID.	29
<input type="checkbox"/>	L6 5582837-\$ DID. OR US-5609590-\$ DID. OR US-5626874-\$ DID. OR US-0563510-\$ DID. OR US-5650169-\$ DID. OR US-5651985-\$ DID. OR US-5681583-\$ DID. OR US-5688776-\$ DID. OR US-5736159-\$ DID. OR US-5738874-\$ DID. OR US-5780057-\$ DID. OR US-5783212-\$ DID. OR US-5811126-\$ DID. OR US-5827984-\$ DID. OR US-5837379-\$ DID. OR US-5840329-\$ DID. OR US-5840332-\$ DID. OR US-5861173-\$ DID. OR US-5891474-\$ DID. OR US-5897874-\$ DID. OR US-5916595-\$ DID. OR US-5945125-\$ DID.	85
<input type="checkbox"/>	L5 L4 and l2	164
<input type="checkbox"/>	L4 L3 and 11	492
<input type="checkbox"/>	L3 sustained or controlled or delayed	3220859
<input type="checkbox"/>	L2 USP! or (united states pharmacopeia and national formulary)	22565
<input type="checkbox"/>	L1 disintegrat\$3 near1 (test\$3 or trial or analysis)	898

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Survey of Ophthalmology

Volume 21, Issue 3 , November-December 1976, Pages 262-275

doi:10.1016/0039-6257(76)90124-7 [? Cite or Link Using DOI](#)
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Therapeutic review

Bioavailability and genetic prescribing^{*1}

Joel S. Mindel M.D., Ph.D. ^{a, b, c,}

^a Department of Ophthalmology, Mount Sinai School of Medicine, New York, New York, USA

^b Department of Pharmacology, Mount Sinai School of Medicine, New York, New York, USA

^c the Bronx Veterans Administration Hospital, New York, New York, USA

Available online 12 March 2004.

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Abstract

Although oral drug bioinequivalence has been attributed to a number of causes (excipients, dosage form, variation in dissolution time, and aging) less is known about bioavailability problems of topical medications in ophthalmology. Factors that can alter drug absorption from solutions (pH, partition coefficient, container impurities, contact time, etc.) are noted, and cases in which bioavailability problems should be considered as causes of therapeutic failure are discussed. Various attitudes representing pharmaceutical companies, the federal government, pharmacists, consumers and physicians toward the related problems of bioinequivalence and generic prescribing are examined. Techniques for in vivo and in vitro drug testing and for establishing uniform conditions of drug manufacture and storage can contribute to identification and minimization of bioavailability problems. A rational program based on a combination of such techniques could, ultimately, lead to establishment of the terms "generic equivalency" and "therapeutic equivalency" as synonymous.

Author Keywords: Author Keywords: bioavailability; bioinequivalence; drug control; drugs; generic prescribing



Corresponding author. Requests for reprints should be addressed to Dr. Joel S. Mindel, Department of Ophthalmology, Annenberg Building-22nd Fl., Mount Sinai School of

Medicine, Fifth Avenue and 100th Street, New York, N.Y. 10029

*1 Supported in part by National Eye Institute grant EY-00340. The author is a Research Career Development awardee.

Survey of Ophthalmology

Volume 21, Issue 3 , November-December 1976, Pages 262-275

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(United states pharmacopeia and national formulary) and disintegration

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European Journal of Pharmaceutical Sciences, Volume 23, Issue 3, November 2004, Pages 287-296
Janne Ørskov Christensen, Kirsten Schultz, Birgitte Mollgaard, Henning Gjelstrup Kristensen and Anette Mullertz
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Siew Ping Yap and Kah Hay Yuen

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European Journal of Pharmaceutics and Biopharmaceutics, Volume 58, Issue 1, July 2004, Pages 51-59
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International Journal of Pharmaceutics, Volume 274, Issues 1-2, 15 April 2004, Pages 245-260
M. Gabriëls and J. Plaizier-Vercammen
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9. **Modulating drug release with cyclodextrins in hydroxypropyl methylcellulose gels and tablets • ARTICLE**
Journal of Controlled Release, Volume 94, Issues 2-3, 10 February 2004, Pages 351-363
Beatriz Pose-Vilarnovo, Carmen Rodríguez-Tenreiro, José Fernando Rosa dos Santos, Juan Vázquez-Doval, Angel Concheiro, Carmen Alvarez-Lorenzo and Juan J. Torres-Labandeira
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11. **Development and validation of a stability-indicating HPLC method for the simultaneous determination of Losartan potassium, hydrochlorothiazide, and their degradation products • ARTICLE**
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Deanne L. Hertzog, Jennifer Finnegan McCafferty, Xueguang Fang, R. Jeffrey Tyrrell and Robert A. Reed
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12. **Clay minerals and their beneficial effects upon human health. A review • ARTICLE**
Applied Clay Science, Volume 21, Issues 3-4, June 2002, Pages 155-163
M. Isabel Carretero

Abstract

13. **Position of the American Dietetic Association: Food Fortification and Dietary Supplements • MISCELLANEOUS**
Journal of the American Dietetic Association, Volume 101, Issue 1, January 2001,
Pages 115-125
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14. **Microcrystalline cellulose from soybean husk: effects of solvent treatments on its properties as acetylsalicylic acid carrier • ARTICLE**
International Journal of Pharmaceutics, Volume 206, Issues 1-2, 25 September 2000,
Pages 85-96
Nelson Yoshio Uesu, Edgardo Alfonso Gómez Pineda and Ana Adelina Winkler
Hechenleitner
[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(491 K\)](#)
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15. **Starch capsules: an alternative system for oral drug delivery • REVIEW ARTICLE**
Pharmaceutical Science & Technology Today, Volume 3, Issue 2, 1 February 2000,
Pages 64-69
Vinod D. Vilivalam, Lisbeth Illum and Khurshid Iqbal
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16. **Position of The American Dietetic Association: Vitamin and Mineral Supplementation • ARTICLE**
Journal of the American Dietetic Association, Volume 96, Issue 1, January 1996,
Pages 73-77
Janet R. Hunt
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17. **Fate of a ferrous sulfate prescription • CORRESPONDENCE**
The American Journal of Medicine, Volume 83, Issue 2, August 1987, Pages 386-387
Andrea A. Fus, Robert L. Talbert and James McGinity
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18. **Drug dissolution studies in milk using the automated flow injection serial dynamic dialysis technique • ARTICLE**
International Journal of Pharmaceutics, Volume 33, Issues 1-3, November 1986,
Pages 125-136
P. Macheras, M. Koupparis and C. Tsaprounis
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19. **Effect of humidity and packaging on the long-term aging of commercial sustained-release theophylline tablets • ARTICLE**
International Journal of Pharmaceutics, Volume 83, Issues 1-3, 30 June 1982,
Pages 59-63
E. Sánchez, C. M. Evora and M. Llabrés
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20. **Bioavailability and genetic prescribing • REVIEW ARTICLE**

Survey of Ophthalmology, Volume 21, Issue 3, November-December 1976, Pages 262-275

Joel S. Mindel

Abstract

-
21. **Prescription writing by generic name and drug cost • ARTICLE**

Journal of Chronic Diseases, Volume 19, Issues 11-12, November-December 1966,

Pages 1253-1256

Daniel L. Azarnoff, Donald B. Hunninghake and Jack Wortman

Abstract

21 Articles Found

(United states pharmacopeia and national formulary) and disintegration

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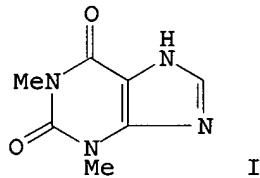


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L3 ANSWER 13 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1983:443385 CAPLUS
DN 99:43385
ED Entered STN: 12 May 1984
TI In vitro testing of controlled-release theophylline preparations: Theolair, Theograd and Theolin
AU Crombeen, J. P.; De Blaey, C. J.
CS Dep. Pharm., Univ. Utrecht, Utrecht, 3511 GH, Neth.
SO Pharmaceutisch Weekblad, Scientific Edition (1983), 5(2), 65-9
CODEN: PWSEDI; ISSN: 0167-6555
DT Journal
LA English
CC 63-5 (Pharmaceuticals)
GI



- AB Three controlled-release theophylline (I) [58-55-9] preps. of different compns. were tested by the USP XX paddle method, a column flow-through method (Langenbucher, F., 1969), and the USP XX disintegration method. The 1st 2 methods gave similar results for Theolair and Theolin, and faster release from Theograd. With the paddle method, all 3 released I faster when agitation was increased from 60 ppm to 100 ppm. The change from simulated gastric juice (pH 4.4) in the disintegration method to pH 7.5 gave variable results depending on how the pH change was made. The release from Theograd was complete before the pH change took place, but release from Theograd was similar at pH 1.4 and 7.5.
- ST theophylline soln rate detn; controlled release theophylline detn
- IT Solution rate
(of theophylline controlled-release tablets, method effect on)
- IT 58-55-9, biological studies
RL: BIOL (Biological study)
(controlled-release tablets, solution rate of, method effect on)

Blessing

10773986

L3 ANSWER 8 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1992:46175 CAPLUS
DN 116:46175
ED Entered STN: 08 Feb 1992
TI Testing of drug release from bioadhesive vaginal tablets
AU Gursoy, Ayla; Bayhan, Aysegul
CS Fac. Pharm., Marmara Univ., Nisantasi, 80200, Turk.
SO Drug Development and Industrial Pharmacy (1991), 17(18), 2457-75
CODEN: DDIPD8; ISSN: 0363-9045
DT Journal
LA English
CC 63-5 (Pharmaceuticals)
AB To establish an in vitro test method that can predict the drug release and dissoln. behavior of vaginal bioadhesive controlled -released tablets, a system was developed and its appropriateness to the in situ conditions was examined. For this purpose, the dissoln. rates of vaginal bioadhesive tablets were measured by three different methods. These were, USP dissoln. apparatus two and a new vaginal dissoln. tester (NVDT) which was developed by us with some modification of the vaginal tablet disintegration apparatus of BP 1988 and, testing in cow vaginas in situ. Four different bioadhesive tablet formulations were used being composed of the drug and the anionic polymer, poly(acrylic acid) (PAA) and the nonionic polymers, hydroxypropyl Me cellulose (HPMC) and Et cellulose (EC). The release profiles of the in vitro and in situ methods were investigated and evaluated kinetically.
ST vaginal tablet bioadhesive drug release
IT Solution rate
 (of drugs, from bioadhesive vaginal tablets, method for study of)
IT Pharmaceutical dosage forms
 (tablets, vaginal, bioadhesive, drug release from, method for study of)
IT 9004-34-6, Cellulose, biological studies
RL: BIOL (Biological study)
 (microcryst., vaginal tablets containing, bioadhesive, drug release from, method for study of)
IT 548-62-9, Crystal violet
RL: BIOL (Biological study)
 (release of, from bioadhesive vaginal tablets, method for study of)
IT 9004-57-3, Ethyl cellulose 9004-65-3, Hydroxypropyl methyl cellulose
9007-16-3, Carbopol 934
RL: BIOL (Biological study)
 (vaginal tablets containing, bioadhesive, drug release from, method for study of)

L3 ANSWER 9 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1990:618073 CAPLUS
DN 113:218073
ED Entered STN: 08 Dec 1990
TI Production of modified rice starch and its utilization in the pharmaceutical industry
AU Mitrevej, Ampol; Varavinit, Saiyavit
CS Fac. Pharm., Mahidol Univ., Bangkok, Thailand
SO Microbial Utilization of Renewable Resources (1989), 6, 153-7
CODEN: MURRE6
DT Journal
LA English
CC 63-6 (Pharmaceuticals)
AB Pregelatinized rice starch (PRS) was prepared by phys. modification. The degree of pregelatinization was controlled to an appropriate

Blessing

level. With the addition of small amount of water to pregelatinized rice starch, a slightly sticky, damped mass was obtained. Pregelatinized rice starch was tested for a potential use as a tablet filler or binder in wet granulation process. Two hydrochlorothiazide (I) formulations were compared. Our formulation comprised I and PRS; the powder mixture was damped with water. The other formulation contained I, lactose as filter, corn starch as binder and also as tablet disintegrant. In the later case, the powder mixture was damped with starch paste. Both granulations were compressed of an instrumented tablet press. The tablets were evaluated for their hardness, friability, disintegration, and also dissoln. The dissoln. exceeded the USP requirement.

Three components, i.e., lactose, corn starch paste, and disintegrant could be replaced with only one single material, PRS. PRS performed well in the acetaminophen tablet formulation which was a high-dose drug and tended to cap; however, small amt. of extra binder and disintegrant were needed. Thus, PRS has a great potential use in wet granulation process.

ST rice starch pharmaceutical; tablet rice starch; granulation rice starch
 IT Solution rate
 (of acetaminophen, from tablets containing pregelatinized rice starch)
 IT Pharmaceutical dosage forms
 (tablets, binder-filler for, pregelatinized rice starch for)
 IT Granulation
 (wet, pregelatinized rice starch in, for tablets)
 IT 9005-25-8P, Starch, preparation
 RL: PREP (Preparation)
 (modified rice, production of, as tablet filler in wet granulation)
 IT 58-93-5, Hydrochlorothiazide 103-90-2, Acetaminophen
 RL: BIOL (Biological study)
 (tablets, pregelatinized rice starch filler for)

L3 ANSWER 10 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 1986:578359 CAPLUS
 DN 105:178359
 ED Entered STN: 15 Nov 1986
 TI Tableting of a nitroglycerin inclusion compound and investigation of the sustained-release tablets
 AU Kata, Mihaly; Wayer, Maria; Szabo Revesz, Piroska; Kedvessy, Gyorgy;
 Stadler-Szoke, Agnes; Szejtli, Jozsef
 CS Pharm.-Chem. Werk, CHINOIN A.-G., Budapest, Hung.
 SO Acta Pharmaceutica Hungarica (1986), 56(4), 157-63
 CODEN: APHGAO; ISSN: 0001-6659
 DT Journal
 LA German
 CC 63-6 (Pharmaceuticals)
 AB Tablets containing nitroglycerin- β -cyclodextrin complex (I) [58195-87-2] were prepared with a nitroglycerin content of 13.4% by using excipients, lactose, Avicel PH 101, Mg stearate and Aerosil R 972. The phys. properties of the tablets, disintegration time, compression strength and abrasion loss were determined. The drug (100%) was dissolved after 8-9 min from the complex, while only 80-85% drug dissolved from the com. tablets in 8-9 min. The release of the drug from the complex tablets was studied by using propeller-stirrer and USP XX methods. After 1 h stirring 60 and 50% drug dissolved (propeller and USP XX methods., resp.). The tablets showed delayed-release behavior. Tests of tablets heat treated at 50° showed that the drug content of the I tablets was between 96 and 104% and did not decrease. The com. tablets, however, showed only 96.2% of the declared content; the content after 1 day was 35% and after 2 days decreased to 30%.
 ST sustained release nitroglycerin cyclodextrin tablet

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IT Solution rate
(of nitroglycerin, from sustained-release tablets containing cyclodextrin complex)

IT 58195-87-2

RL: BIOL (Biological study)
(sustained-release tablets, properties of and drug release from)

L3 ANSWER 11 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1984:180040 CAPLUS

DN 100:180040

ED Entered STN: 26 May 1984

TI Variations in dissolution rates of sugar-coated chlorpromazine tablets

AU El-Fattah, Sawsan Abd; Khalil, Saleh A. H.

CS Fac. Pharm., Univ. Alexandria, Alexandria, Egypt

SO International Journal of Pharmaceutics (1984), 18(3), 225-34

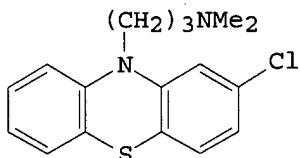
CODEN: IJPHDE; ISSN: 0378-5173

DT Journal

LA English

CC 63-5 (Pharmaceuticals)

GI



AB The dissoln. rates of 14 batches of sugar-coated chlorpromazine (I) [50-53-3] tablets (10, 25 and 100 mg) were examined by the USP method. Although all the batches passed the USP disintegration test in 0.1N HCl, none passed the USP dissoln. limit ($\geq 80\%$ dissoln. after 30 min). Poor dissoln. rates were ascribed to delayed break-up of the sugar-coat. The dissoln. and dialysis rates of tablets of 1 batch were dependent on the medium composition suggesting possible drug-excipient interaction.

ST chlorpromazine soln rate sugar coating

IT Solution rate

(of chlorpromazine sugar-coated tablets)

IT 50-53-3, biological studies

RL: BIOL (Biological study)
(tablets, sugar-coated, solution rate of)

L3 ANSWER 12 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1984:12516 CAPLUS

DN 100:12516

ED Entered STN: 12 May 1984

TI Mean dissolution time - a parameter for testing release condition comparability

AU Voegele, Dieter; Brockmeier, Dierk; Von Hattingberg, H. Michael; Lippold, Berhard C.

CS Pharmaforsch. Galen., Cassella A.-G., Frankfurt, Fed. Rep. Ger.

SO Acta Pharmaceutica Technologica (1983), 29(3), 167-74

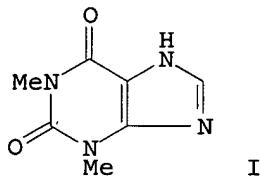
CODEN: APTEDD; ISSN: 0340-3157

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DT Journal
LA German
CC 63-5 (Pharmaceuticals)
Section cross-reference(s): 1
AB Five tablets (composition tabulated) of carbocromene-HCl [655-35-6] were tested for dissoln. rate with the Sartorius apparatus, the USP paddle method, and 2 European Pharmacopeia tablet disintegration tests (22 and 75). Mean times were calculated for each method, and factors were derived for their interconversion. Mean blood levels obtained following administration of an aqueous solution or sustained-release tablets of carbocromene-HCl were determined, and based on correlation of the in vivo/in vitro results for the tablets, in vivo/in vitro correlation factors for the other dissoln. methods were derived.
ST tablet dissoln rate carbocromene
IT Digestive tract
 (carbocromene absorption by, in humans, in vitro solution rate estns. correlation with)
IT Solution rate
 (of tablets, correlation of in vitro and in vivo estns. of)
IT Tablets
 (solution rate of, correlation of in vitro and in vivo estns. of)
IT 655-35-6
RL: BIOL (Biological study)
 (tablets, solution rate of, correlation of in vitro and in vivo estns. of)

L3 ANSWER 13 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1983:443385 CAPLUS
DN 99:43385
ED Entered STN: 12 May 1984
TI In vitro testing of controlled-release theophylline preparations: Theolair, Theograd and Theolin
AU Crombeen, J. P.; De Blaey, C. J.
CS Dep. Pharm., Univ. Utrecht, Utrecht, 3511 GH, Neth.
SO Pharmaceutisch Weekblad, Scientific Edition (1983), 5(2), 65-9
CODEN: PWSEDI; ISSN: 0167-6555
DT Journal
LA English
CC 63-5 (Pharmaceuticals)
GI



AB Three controlled-release theophylline (I) [58-55-9] preps. of different compns. were tested by the USP XX paddle method, a column flow-through method (Langenbucher, F., 1969), and the USP XX disintegration method. The 1st 2 methods gave similar results for Theolair and Theolin, and faster release from Theograd. With the paddle method, all 3 released I faster when agitation

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was increased from 60 ppm to 100 ppm. The change from simulated gastric juice (pH 4.4) in the **disintegration** method to pH 7.5 gave variable results depending on how the pH change was made. The release from Theograd was complete before the pH change took place, but release from Theograd was similar at pH 1.4 and 7.5.

ST theophylline soln rate detn; **controlled** release theophylline detn

IT Solution rate
(of theophylline **controlled**-release tablets, method effect on)

IT 58-55-9, biological studies

RL: BIOL (Biological study)
(**controlled**-release tablets, solution rate of, method effect on)

Blessing